

CRF Errors Corrected by the STIC Systems Branch

0280 OIPE H2

Serial Number: 10/017,828

ENTERED

CRF Processing Date: 1/8/2002
 Edited by: Am
 Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seqs 3 through 8 - inserted hard returns

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

**Does Not Comply
Corrected Diskette Needed**

4 <110> APPLICANT: Keith Schappert
 6 <120> TITLE OF INVENTION: METHODS FOR TREATING OR IDENTIFYING A
 7 SUBJECT AT RISK FOR A NEUROLOGICAL DISEASE BY DETERMINING
 8 THE PRESENCE OF A VARIANT GPIIIA AND/OR VARIANT GPIIB ALLELE
 11 <130> FILE REFERENCE: 50211/015003
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/017,828
 C--> 13 <141> CURRENT FILING DATE: 2001-12-07
 13 <150> PRIOR APPLICATION NUMBER: 09/409,648
 14 <151> PRIOR FILING DATE: 1999-10-01
 16 <150> PRIOR APPLICATION NUMBER: 60/102,624
 17 <151> PRIOR FILING DATE: 1998-10-01
 19 <160> NUMBER OF SEQ ID NOS: 14
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

171 <210> SEQ ID NO: 3
 172 <211> LENGTH: 788
 173 <212> TYPE: PRT
 174 <213> ORGANISM: Homo sapiens
 176 <400> SEQUENCE: 3
 177 Met Arg Ala Arg Pro Arg Pro Arg Pro Leu Trp Val Thr Val Leu Ala
 178 1 5 10 15
 179 Leu Gly Ala Leu Ala Gly Val Gly Val Gly Gly Pro Asn Ile Cys Thr
 180 20 25 30
 181 Thr Arg Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met
 182 35 40 45
 183 Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro Leu Gly Ser Pro Arg Cys
 184 50 55 60
 185 Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn Cys Ala Pro Glu Ser Ile
 186 65 70 75 80
 187 Glu Phe Pro Val Ser Glu Ala Arg Val Leu Glu Asp Arg Pro Leu Ser
 188 85 90 95
 189 Asp Lys Gly Ser Gly Asp Ser Ser Gln Val Thr Gln Val Ser Pro Gln
 190 100 105 110
 191 Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp Ser Lys Asn Phe Ser Ile
 192 115 120 125
 193 Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met
 194 130 135 140
 195 Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu
 196 145 150 155 160
 197 Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser Asn Leu Arg
 198 165 170 175
 199 Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
 200 180 185 190
 201 Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

202          195          200          205
203 Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr Leu Thr Asp
204          210          215          220
205 Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser Val Ser Arg
206 225          230          235          240
207 Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr
208          245          250          255
209 Val Cys Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu
210          260          265          270
211 Val Phe Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu
212          275          280          285
213 Ala Gly Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp
214          290          295          300
215 Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu
216 305          310          315          320
217 Met Thr Glu Lys Leu Ser Gln Lys Asn Ile Asn Leu Ile Phe Ala Val
218          325          330          335
219 Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr Ser Glu Leu Ile Pro
220          340          345          350
221 Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser Ser Asn Val Leu Gln
222          355          360          365
223 Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser Lys Val Glu Leu Glu
224          370          375          380
225 Val Arg Asp Leu Pro Glu Glu Leu Ser Leu Ser Phe Asn Ala Thr Cys
226 385          390          395          400
227 Leu Asn Asn Glu Val Ile Pro Gly Leu Lys Ser Cys Met Gly Leu Lys
228          405          410          415
229 Ile Gly Asp Thr Val Ser Phe Ser Ile Glu Ala Lys Val Arg Gly Cys
230          420          425          430
231 Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile Lys Pro Val Gly Phe Lys
232          435          440          445
233 Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys Gln
234          450          455          460
235 Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly Thr
236 465          470          475          480
237 Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser Gln
238          485          490          495
239 Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu Cys
240          500          505          510
241 Ser Pro Arg Glu Gly Gln Pro Val Cys Ser Gln Arg Gly Glu Cys Leu
242          515          520          525
243 Cys Gly Gln Cys Val Cys His Ser Ser Asp Phe Gly Lys Ile Thr Gly
244          530          535          540
245 Lys Tyr Cys Glu Cys Asp Phe Ser Cys Val Arg Tyr Lys Gly Glu
246 545          550          555          560
247 Met Cys Ser Gly His Gly Gln Cys Ser Cys Gly Asp Cys Leu Cys Asp
248          565          570          575
249 Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys Thr Thr Arg Thr Asp Thr
250          580          585          590

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

251 Cys Met Ser Ser Asn Gly Leu Leu Cys Ser Gly Arg Gly Lys Cys Glu
252          595                      600                      605
253 Cys Gly Ser Cys Val Cys Ile Gln Pro Gly Ser Tyr Gly Asp Thr Cys
254          610                      615                      620
255 Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys
256 625                      630                      635                      640
257 Val Glu Cys Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr
258                      645                      650                      655
259 Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys
260          660                      665                      670
261 Asp Thr Gly Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp
262          675                      680                      685
263 Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile
264          690                      695                      700
265 Leu Tyr Val Val Glu Glu Pro Glu Cys Pro Lys Gly Pro Asp Ile Leu
266 705                      710                      715                      720
267 Val Val Leu Leu Ser Val Met Gly Ala Ile Leu Leu Ile Gly Leu Ala
268          725                      730                      735
269 Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu
270          740                      745                      750
271 Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala
E--> 272

```

755

760

765

Asn Asn Pro Leu Tyr Lys Glu Ala

insert hard return

```

274 <210> SEQ ID NO: 4
275 <211> LENGTH: 788
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 4
280 Met Arg Ala Arg Pro Arg Pro Arg Pro Leu Trp Val Thr Val Leu Ala
281 1          5          10          15
282 Leu Gly Ala Leu Ala Gly Val Gly Val Gly Gly Pro Asn Ile Cys Thr
283          20          25          30
284 Thr Arg Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met
285          35          40          45
286 Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro Pro Gly Ser Pro Arg Cys
287          50          55          60
288 Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn Cys Ala Pro Glu Ser Ile
289 65          70          75          80
290 Glu Phe Pro Val Ser Glu Ala Arg Val Leu Glu Asp Arg Pro Leu Ser
291          85          90          95
292 Asp Lys Gly Ser Gly Asp Ser Ser Gln Val Thr Gln Val Ser Pro Gln
293          100         105         110
294 Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp Ser Lys Asn Phe Ser Ile
295          115         120         125
296 Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met
297          130         135         140
298 Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu
299 145         150         155         160
300 Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser Asn Leu Arg
301          165         170         175

```

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/10/017,828

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

302 Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
303           180           185           190
304 Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr
305           195           200           205
306 Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr Leu Thr Asp
307           210           215           220
308 Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser Val Ser Arg
309 225           230           235           240
310 Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr
311           245           250           255
312 Val Cys Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu
313           260           265           270
314 Val Phe Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu
315           275           280           285
316 Ala Gly Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp
317           290           295           300
318 Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu
319 305           310           315           320
320 Met Thr Glu Lys Leu Ser Gln Lys Asn Ile Asn Leu Ile Phe Ala Val
321           325           330           335
322 Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr Ser Glu Leu Ile Pro
323           340           345           350
324 Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser Ser Asn Val Leu Gln
325           355           360           365
326 Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser Lys Val Glu Leu Glu
327           370           375           380
328 Val Arg Asp Leu Pro Glu Glu Leu Ser Leu Ser Phe Asn Ala Thr Cys
329 385           390           395           400
330 Leu Asn Asn Glu Val Ile Pro Gly Leu Lys Ser Cys Met Gly Leu Lys
331           405           410           415
332 Ile Gly Asp Thr Val Ser Phe Ser Ile Glu Ala Lys Val Arg Gly Cys
333           420           425           430
334 Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile Lys Pro Val Gly Phe Lys
335           435           440           445
336 Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys Gln
337           450           455           460
338 Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly Thr
339 465           470           475           480
340 Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser Gln
341           485           490           495
342 Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu Cys
343           500           505           510
344 Ser Pro Arg Glu Gly Gln Pro Val Cys Ser Gln Arg Gly Glu Cys Leu
345           515           520           525
346 Cys Gly Gln Cys Val Cys His Ser Ser Asp Phe Gly Lys Ile Thr Gly
347           530           535           540
348 Lys Tyr Cys Glu Cys Asp Phe Ser Cys Val Arg Tyr Lys Gly Glu
349 545           550           555           560
350 Met Cys Ser Gly His Gly Gln Cys Ser Cys Gly Asp Cys Leu Cys Asp

```

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/10/017,828

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

351          565          570          575
352 Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys Thr Thr Arg Thr Asp Thr
353          580          585          590
354 Cys Met Ser Ser Asn Gly Leu Leu Cys Ser Gly Arg Gly Lys Cys Glu
355          595          600          605
356 Cys Gly Ser Cys Val Cys Ile Gln Pro Gly Ser Tyr Gly Asp Thr Cys
357          610          615          620
358 Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys
359 625          630          635          640
360 Val Glu Cys Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr
361          645          650          655
362 Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys
363          660          665          670
364 Asp Thr Gly Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp
365          675          680          685
366 Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile
367          690          695          700
368 Leu Tyr Val Val Glu Glu Pro Glu Cys Pro Lys Gly Pro Asp Ile Leu
369 705          710          715          720
370 Val Val Leu Leu Ser Val Met Gly Ala Ile Leu Leu Ile Gly Leu Ala
371          725          730          735
372 Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu
373          740          745          750
374 Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala

```

E--> 375

```

755          760          765          Asn Asn Pro Leu Tyr Lys Glu Ala
377 <210> SEQ ID NO: 5
378 <211> LENGTH: 3303
379 <212> TYPE: DNA
380 <213> ORGANISM: Homo sapiens
382 <400> SEQUENCE: 5
383 gatggccaga gctttgtgtc cactgcaagc cctctggctt ctggagtggg tgctgctgct 60
384 cttgggacct tgtgtgtccc ctccagcctg ggccttgaac ctggaccag tgcagctcac 120
385 cttctatgca ggcccaatg gcagccagtt tggattttca ctggacttcc acaaggacag 180
386 ccatgggaga gtggccatcg tggtagggcg cccgcggacc ctgggccccca gccaggagga 240
387 gacggggcggc gtgttcctgt gccctggag ggccgagggc ggccagtgcc cctcgctgct 300
388 ctttgacctc cgtgatgaga cccgaaatgt aggtcccaa actttacaaa ccttcaaggc 360
389 ccgccaagga ctggggggcgt cggtcgtcag ctggagcgac gtcattgtgg cctgcgcccc 420
390 ctggcagcac tggaacgtcc tagaaaagac tgaggaggct gagaagacgc ccgtaggtag 480
391 ctgctttttg gctcagccag agagcggccg ccgcgccgag tactccccct gtcgcgggaa 540
392 caccctgagc cgcatttacg tggaaaatga ttttagctgg gacaagcgtt actgtgaagc 600
393 gggcttcagc tccgtggtca ctcaaggccg agagctggtg cttggggctc ctggcggcta 660
394 ttattttctt ggtctcctgg ccagggctcc agttgcggat attttctcga gttaccgccc 720
395 aggcacacct ttgtggcacg tgctctccca gacctctcc tttgactcca gcaaccacaga 780
396 gtacttcgac ggctactggg ggtactcggg ggccgtgggc gagttcgacg gggatctcaa 840
397 cactacagaa tatgtcgtcg gtgccccac ttggagctgg accctgggag cgggtggaaat 900
398 tttggattcc tactaccaga ggctgcacg gctgcgcgca gagcagatgg cgtcgtattt 960
399 tgggcatcca gtggctgtca ctgacgtcaa ccgggagtgg aggcattgat tgctggtggg 1020
400 cgtccactg tataatgaga gccgggcgaa cccgaaactg gccgaagtgg ggcgtgtgta 1080
401 tttgttcctg cagccgcgag gccccacgc gctgggtgcc cccagcctcc tgctgactgg 1140

```

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/10/017,828

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

402	cacacagctc	tatgggcgat	tcggctctgc	catcgacccc	ctgggcgacc	togaccggga	1200
403	tggctacaat	gacattgcag	tggctgcccc	ctacgggggt	cccagtggcc	ggggccaagt	1260
404	gctggtgttc	ctgggtcaga	gtgaggggct	gaggtcacgt	ccctcccagg	toctggacag	1320
405	ccccctcccc	acaggctctg	cctttggctt	ctcccttcga	ggtgccgtag	acatcgatga	1380
406	caacggatac	ccagacctga	tcgtgggagc	ttacggggcc	aaccagggtg	ctgtgtacag	1440
407	agctcagcca	gtggtgaagg	cctctgtcca	gctactggtg	caagattcac	tgaatcctgc	1500
408	tgtgaagagc	tgtgtcctac	ctcagaccaa	gacaccctg	agctgcttca	acatccagat	1560
409	gtgtgttgga	gccactgggc	acaacattcc	tcagaagcta	tcctaaatg	ccgagctgca	1620
410	gctggaccgg	cagaagcccc	gccaggggcg	gcgggtgctg	ctgctgggct	ctcaacaggc	1680
411	aggcaccacc	ctgaacctgg	atctggggcg	aaagcacagc	cccatctgcc	acaccaccat	1740
412	ggccttcctt	cgagatgagg	cagacttccg	ggacaagctg	agccccattg	tgctcagcct	1800
413	caatgtgtcc	ctaccgcccc	cggaggctgg	aatggccctt	gctgtcgtgc	tgcatggaga	1860
414	cacccatgtg	caggagcaga	cacgaatcgt	cctggactct	ggggaagatg	acgtatgtgt	1920
415	gccccagctt	cagctcactg	ccagcgtgac	gggctccccg	ctcctagtgt	gggcagataa	1980
416	tgtcctggag	ctgcagatgg	acgcagccaa	cgagggcgag	ggggcctatg	aagcagagct	2040
417	ggccgtgcac	ctgccccagg	gcgcccacta	catgcggggc	ctaagcaatg	tcgagggtt	2100
418	tgagagactc	atctgtaatc	agaagaagga	gaatgagacc	aggggtggtg	tgtgtgagct	2160
419	gggcaacccc	atgaagaaga	acgcccagat	aggaatcgcg	atggttggtga	gcgtggggaa	2220
420	tctggaagag	gctggggagt	ctgtgtcctt	ccagctgcag	atacggagca	agaacagcca	2280
421	gaatccaaac	agcaagattg	tgctgctgga	cgtgccggtc	cgggcagagg	cccaagtgga	2340
422	gctgcgagg	aactcctttc	cagcctccct	ggtggtggca	gcagaagaag	gtgagaggga	2400
423	gcagaacagc	ttggacagct	ggggacccaa	agtggagcac	acctatgagc	tcacacaaca	2460
424	tggccctggg	actgtgaatg	gtcttcacct	cagcatccac	cttcggggac	agtcccagcc	2520
425	ctccgacctg	ctctacatcc	tggatataca	gccccagggg	ggccttcagt	gcttcccaca	2580
426	gcctcctgtc	aacctcttca	aggtggactg	ggggctgccc	atccccagcc	cctcccccat	2640
427	tcacccggcc	catcacaagc	gggatcgag	acagatcttc	ctgccagagc	ccgagcagcc	2700
428	ctcgaggctt	caggatccag	ttctcgtaag	ctgcgactcg	gcgccctgta	ctgtggtgca	2760
429	gtgtgacctg	caggagatgg	cgcgcgggca	gcggggccatg	gtcacgggtg	tgcccttcc	2820
430	gtggtgccc	agcctctacc	agaggcctct	ggatcagttt	gtgctgcagt	cgcacgcagt	2880
431	gttcaacgtg	tcctccctcc	cctatgcggg	gcccccgctc	agcctgcccc	gaggggaagc	2940
432	tcaggtgtgg	acacagctgc	tccgggcctt	ggaggagagg	gccattccaa	tctggtgggt	3000
433	ctggtgtggt	gtgctgggtg	gctgtgctgt	gctcaccatc	ctggtcctgg	ccatgtggaa	3060
434	ggtcggttcc	ttcaagcgga	accggccacc	cctggaagaa	gatgatgaag	agggggagtg	3120
435	atggtgcagc	ctacactatt	ctagcaggag	ggttgggcgt	gctacctgca	ccgccccttc	3180

E--> 436

tccaacaagt tgccctccaag ctttgggttg gagctgttcc attgggtcct cttggtgtcg 3240tttccctccc aacagagctg

438 <210> SEQ ID NO: 6

439 <211> LENGTH: 3303

440 <212> TYPE: DNA

441 <213> ORGANISM: Homo sapiens

443 <400> SEQUENCE: 6

444	gatggccaga	gctttgtgtc	caactgcaagc	cctctggtt	ctggagtggg	tgctgctgct	60
445	cttgggacct	tgtgtgccc	ctccagcctg	ggccttgaac	ctggacccag	tgacgtcac	120
446	cttctatgca	ggccccaatg	gcagccagtt	tggattttca	ctggacttcc	acaaggacag	180
447	ccatgggaga	gtggccatcg	tgggtgggcgc	cccgcggacc	ctgggcccc	gccaggagga	240
448	gacgggcggc	gtgttctctg	gccccctggg	ggccgagggc	ggccagtgcc	cctcgtgct	300
449	ctttgacctc	cgtgatgaga	ccgaaatgt	aggctcccaa	actttacaaa	ccttcaaggc	360
450	ccgccaagga	ctggggggcgt	cggctcgtcag	ctggagcgac	gtcattgtgg	cctgcgccc	420
451	ctggcagcac	tggaaactcc	tagaaaagac	tgaggaggct	gagaagacgc	ccgtaggtag	480
452	ctgctttttg	gctcagccag	agagcggccg	ccgcgcgcag	tactccccct	gtcgcgggaa	540

None

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

453 caccctgagc cgcatttacg tggaaaatga ttttagctgg gacaagcgtt actgtgaagc 600
454 gggcttcagc tccgtgggtca ctcaggccgg agagctgggtg cttggggctc ctggcggcta 660
455 ttattttctta ggtctcctgg cccaggctcc agttgcggat attttctoga gttaccgccc 720
456 aggcatacctt ttgtggcacg tgtcctccca gagcctctcc tttgactcca gcaaccacaga 780
457 gtacttcgac ggctactggg ggtactcggg ggcctggggc gagttcgacg gggatctcaa 840
458 cactacagaa tatgtcgtcg gtgccccac ttggagctgg accctgggag cgggtggaaat 900
459 ttgggattcc tactaccaga ggctgcacg gctgcgcgca gagcagatgg cgtcgtatatt 960
460 tgggcattca gtggctgtca ctgacgtcaa cggggatggg aggcagatgc tgctgggtggg 1020
461 cgctccactg tatatggaga gccgggcaga ccgaaaactg gccgaagtgg ggcgtgtgta 1080
462 ttgtttcctg cagccgcgag gccccacgc gctgggtgcc cccagcctcc tgctgactgg 1140
463 cacacagctc tatgggcgat tcggctctgc catcgacccc ctgggagacc tcgaccggga 1200
464 tggctacaat gacattgcag tggctgcccc ctacgggggt cccagtgagg ggggccaagt 1260
465 gctgggtgttc ctgggtcaga gtgaggggct gaggtcacgt cctcccagg tcctggacag 1320
466 ccccttcccc acaggctctg cctttggctt ctcccttcga ggtgcccgtg acatcgatga 1380
467 caacggatac ccagctctga tcgtgggagc ttacggggcc aaccaggtgg ctgtgtacag 1440
468 agctcagcca gtgggtgaag cctctgtcca gctactgggt caagattcac tgaatcctgc 1500
469 tgtgaagagc tgtgtcctac ctcagaccaa gacaccggtg agctgcttca acatccagat 1560
470 gtgtgttggg gccactgggc acaacattcc tcagaagcta tccctaaatg ccgagctgca 1620
471 gctggaccgg cagaagcccc gccaggcccg gcgggtgctg ctgctgggct ctcaacaggc 1680
472 aggcaccacc ctgaacctgg atctgggcgg aaagcacagc cccatctgcc acaccaccat 1740
473 ggccttcctt cgagatgagg cagacttccg ggacaagctg agccccattg tgctcagcct 1800
474 caatgtgtcc ctaccgcca cggaggctgg aatggccctt gctgtcgtgc tgcatggaga 1860
475 caccatgtg caggagcaga cacgaatcgt cctggactct ggggaagatg acgtatgtgt 1920
476 gccccagctt cagctcactg ccagcgtgac gggctccccg ctccatagttg gggcagataa 1980
477 tgtcctggag ctgcagatgg acgcagccaa cgagggcgag ggggcctatg aagcagagct 2040
478 ggccgtgcac ctgccccagg gcgcccacta catgcggggc ctaagcaatg tcgagggctt 2100
479 tgagagactc atctgtaatc agaagaagga gaatgagacc aggggtggtg tggtgtgact 2160
480 gggcaacccc atgaagaaga acgcccagat aggaatcgcg atgttgggtg gcgtggggaa 2220
481 tctggaagag gctggggagt ctgtgtcctt ccagctgcag atacggagca agaacagcca 2280
482 gaatccaaac agcaagattg tgctgtcgtg cgtgcccgtc cgggcagagg cccaagtgga 2340
483 gctgcgaggg aactcctttc cagcctccct ggtgggtggc gcagaagaag gtgagagga 2400
484 gcagaacagc ttggacagct ggggacccaa agtggagcac acctatgagc tccacaacaa 2460
485 tggccctggg actgtgaatg gtcttcacct cagcatccac cttccgggac agtcccagcc 2520
486 ctccgacctg ctctacatcc tggatataca gccccagggg ggccttcagt gcttcccaca 2580
487 gctcctgtc aacctctca aggtggactg ggggtgccc agccccagcc cctcccccat 2640
488 tcacccggcc catcacaagc gggatcgag acagatcttc ctgccagagc ccgagcagcc 2700
489 ctcgaggctt caggatccag ttctcgtaag ctgcgactcg gcgcccgtgta ctgtgggtgca 2760
490 gtgtgacctg caggagatgg cgcgcgggca gcgggccatg gtcacggtgc tggccttcc 2820
491 gtggctgccc agcctctacc agaggcctct ggatcagttt gtgctgcagt cgcacgcatg 2880
492 gttcaacgtg tcttccctcc cctatgcggg gcccccgctc agcctgcccc gaggggaagc 2940
493 tcagggtgtg acacagctgc tccgggcctt ggaggagagg gccattccaa tctgggtggg 3000
494 gctgggtggg gtgctgggtg gcctgctgct gctcaccatc ctggtcctgg ccatgtggaa 3060
495 ggtcggttcc ttcaagcgga accggccacc cctggaagaa gatgatgaag agggggagt 3120
496 atggtgcagc ctacactatt ctagcaggag ggttgggcgt gctacctgca ccgccccttc 3180

```

E--> 497

tccaacaagt tgctccaag ctttgggttg gagctgttcc attgggtcct cttgggtgctg 3240tttccctccc aacagagctg

499 <210> SEQ ID NO: 7

500 <211> LENGTH: 1039

501 <212> TYPE: PRT

502 <213> ORGANISM: Homo sapiens

same

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/10/017,828

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

504 <400> SEQUENCE: 7

```

505 Met Ala Arg Ala Leu Cys Pro Leu Gln Ala Leu Trp Leu Leu Glu Trp
506 1 5 10 15
507 Val Leu Leu Leu Leu Gly Pro Cys Ala Ala Pro Pro Ala Trp Ala Leu
508 20 25 30
509 Asn Leu Asp Pro Val Gln Leu Thr Phe Tyr Ala Gly Pro Asn Gly Ser
510 35 40 45
511 Gln Phe Gly Phe Ser Leu Asp Phe His Lys Asp Ser His Gly Arg Val
512 50 55 60
513 Ala Ile Val Val Gly Ala Pro Arg Thr Leu Gly Pro Ser Gln Glu Glu
514 65 70 75 80
515 Thr Gly Gly Val Phe Leu Cys Pro Trp Arg Ala Glu Gly Gly Gln Cys
516 85 90 95
517 Pro Ser Leu Leu Phe Asp Leu Arg Asp Glu Thr Arg Asn Val Gly Ser
518 100 105 110
519 Gln Thr Leu Gln Thr Phe Lys Ala Arg Gln Gly Leu Gly Ala Ser Val
520 115 120 125
521 Val Ser Trp Ser Asp Val Ile Val Ala Cys Ala Pro Trp Gln His Trp
522 130 135 140
523 Asn Val Leu Glu Lys Thr Glu Glu Ala Glu Lys Thr Pro Val Gly Ser
524 145 150 155 160
525 Cys Phe Leu Ala Gln Pro Glu Ser Gly Arg Arg Ala Glu Tyr Ser Pro
526 165 170 175
527 Cys Arg Gly Asn Thr Leu Ser Arg Ile Tyr Val Glu Asn Asp Phe Ser
528 180 185 190
529 Trp Asp Lys Arg Tyr Cys Glu Ala Gly Phe Ser Ser Val Val Thr Gln
530 195 200 205
531 Ala Gly Glu Leu Val Leu Gly Ala Pro Gly Gly Tyr Tyr Phe Leu Gly
532 210 215 220
533 Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr Arg Pro
534 225 230 235 240
535 Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe Asp Ser
536 245 250 255
537 Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val Ala Val
538 260 265 270
539 Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala
540 275 280 285
541 Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr
542 290 295 300
543 Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe
544 305 310 315 320
545 Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp
546 325 330 335
547 Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys
548 340 345 350
549 Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro
550 355 360 365
551 His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr
552 370 375 380

```

RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/10/017,828

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

553 Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp
554 385                               390                               395                               400
555 Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly
556                               405                               410                               415
557 Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser
558                               420                               425                               430
559 Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe
560                               435                               440                               445
561 Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro
562                               450                               455                               460
563 Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg
564 465                               470                               475                               480
565 Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln Asp Ser
566                               485                               490                               495
567 Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln Thr Lys Thr Pro
568                               500                               505                               510
569 Val Ser Cys Phe Asn Ile Gln Met Cys Val Gly Ala Thr Gly His Asn
570                               515                               520                               525
571 Ile Pro Gln Lys Leu Ser Leu Asn Ala Glu Leu Gln Leu Asp Arg Gln
572                               530                               535                               540
573 Lys Pro Arg Gln Gly Arg Arg Val Leu Leu Leu Gly Ser Gln Gln Ala
574 545                               550                               555                               560
575 Gly Thr Thr Leu Asn Leu Asp Leu Gly Gly Lys His Ser Pro Ile Cys
576                               565                               570                               575
577 His Thr Thr Met Ala Phe Leu Arg Asp Glu Ala Asp Phe Arg Asp Lys
578                               580                               585                               590
579 Leu Ser Pro Ile Val Leu Ser Leu Asn Val Ser Leu Pro Pro Thr Glu
580                               595                               600                               605
581 Ala Gly Met Ala Pro Ala Val Val Leu His Gly Asp Thr His Val Gln
582                               610                               615                               620
583 Glu Gln Thr Arg Ile Val Leu Asp Ser Gly Glu Asp Asp Val Cys Val
584 625                               630                               635                               640
585 Pro Gln Leu Gln Leu Thr Ala Ser Val Thr Gly Ser Pro Leu Leu Val
586                               645                               650                               655
587 Gly Ala Asp Asn Val Leu Glu Leu Gln Met Asp Ala Ala Asn Glu Gly
588                               660                               665                               670
589 Glu Gly Ala Tyr Glu Ala Glu Leu Ala Val His Leu Pro Gln Gly Ala
590                               675                               680                               685
591 His Tyr Met Arg Ala Leu Ser Asn Val Glu Gly Phe Glu Arg Leu Ile
592                               690                               695                               700
593 Cys Asn Gln Lys Lys Glu Asn Glu Thr Arg Val Val Leu Cys Glu Leu
594 705                               710                               715                               720
595 Gly Asn Pro Met Lys Lys Asn Ala Gln Ile Gly Ile Ala Met Leu Val
596                               725                               730                               735
597 Ser Val Gly Asn Leu Glu Glu Ala Gly Glu Ser Val Ser Phe Gln Leu
598                               740                               745                               750
599 Gln Ile Arg Ser Lys Asn Ser Gln Asn Pro Asn Ser Lys Ile Val Leu
600                               755                               760                               765
601 Leu Asp Val Pro Val Arg Ala Glu Ala Gln Val Glu Leu Arg Gly Asn

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

602      770      775      780
603 Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu Arg Glu
604 785      790      795      800
605 Gln Asn Ser Leu Asp Ser Trp Gly Pro Lys Val Glu His Thr Tyr Glu
606      805      810      815
607 Leu His Asn Asn Gly Pro Gly Thr Val Asn Gly Leu His Leu Ser Ile
608      820      825      830
609 His Leu Pro Gly Gln Ser Gln Pro Ser Asp Leu Leu Tyr Ile Leu Asp
610      835      840      845
611 Ile Gln Pro Gln Gly Gly Leu Gln Cys Phe Pro Gln Pro Pro Val Asn
612      850      855      860
613 Pro Leu Lys Val Asp Trp Gly Leu Pro Ile Pro Ser Pro Ser Pro Ile
614 865      870      875      880
615 His Pro Ala His His Lys Arg Asp Arg Arg Gln Ile Phe Leu Pro Glu
616      885      890      895
617 Pro Glu Gln Pro Ser Arg Leu Gln Asp Pro Val Leu Val Ser Cys Asp
618      900      905      910
619 Ser Ala Pro Cys Thr Val Val Gln Cys Asp Leu Gln Glu Met Ala Arg
620      915      920      925
621 Gly Gln Arg Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser
622      930      935      940
623 Leu Tyr Gln Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp
624 945      950      955      960
625 Phe Asn Val Ser Ser Leu Pro Tyr Ala Val Pro Pro Leu Ser Leu Pro
626      965      970      975
627 Arg Gly Glu Ala Gln Val Trp Thr Gln Leu Leu Arg Ala Leu Glu Glu
628      980      985      990
629 Arg Ala Ile Pro Ile Trp Trp Val Leu Val Gly Val Leu Gly Gly Leu
630      995      1000      1005

```

E--> 631

Leu Leu Leu Thr Ile Leu Val Leu Ala Met Trp Lys Val Gly Phe Phe 1010

1015

633 <210> SEQ ID NO: 8

634 <211> LENGTH: 1039

635 <212> TYPE: PRT

636 <213> ORGANISM: Homo sapiens

638 <400> SEQUENCE: 8

639 Met Ala Arg Ala Leu Cys Pro Leu Gln Ala Leu Trp Leu Leu Glu Trp

640 1 5 10 15

641 Val Leu Leu Leu Leu Gly Pro Cys Ala Ala Pro Pro Ala Trp Ala Leu

642 20 25 30

643 Asn Leu Asp Pro Val Gln Leu Thr Phe Tyr Ala Gly Pro Asn Gly Ser

644 35 40 45

645 Gln Phe Gly Phe Ser Leu Asp Phe His Lys Asp Ser His Gly Arg Val

646 50 55 60

647 Ala Ile Val Val Gly Ala Pro Arg Thr Leu Gly Pro Ser Gln Glu Glu

648 65 70 75 80

649 Thr Gly Gly Val Phe Leu Cys Pro Trp Arg Ala Glu Gly Gly Gln Cys

650 85 90 95

651 Pro Ser Leu Leu Phe Asp Leu Arg Asp Glu Thr Arg Asn Val Gly Ser

652 100 105 110

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

653 Gln Thr Leu Gln Thr Phe Lys Ala Arg Gln Gly Leu Gly Ala Ser Val
654      115      120      125
655 Val Ser Trp Ser Asp Val Ile Val Ala Cys Ala Pro Trp Gln His Trp
656      130      135      140
657 Asn Val Leu Glu Lys Thr Glu Glu Ala Glu Lys Thr Pro Val Gly Ser
658      145      150      155      160
659 Cys Phe Leu Ala Gln Pro Glu Ser Gly Arg Arg Ala Glu Tyr Ser Pro
660      165      170      175
661 Cys Arg Gly Asn Thr Leu Ser Arg Ile Tyr Val Glu Asn Asp Phe Ser
662      180      185      190
663 Trp Asp Lys Arg Tyr Cys Glu Ala Gly Phe Ser Ser Val Val Thr Gln
664      195      200      205
665 Ala Gly Glu Leu Val Leu Gly Ala Pro Gly Gly Tyr Tyr Phe Leu Gly
666      210      215      220
667 Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr Arg Pro
668      225      230      235      240
669 Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe Asp Ser
670      245      250      255
671 Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val Ala Val
672      260      265      270
673 Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala
674      275      280      285
675 Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr
676      290      295      300
677 Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe
678      305      310      315      320
679 Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp
680      325      330      335
681 Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys
682      340      345      350
683 Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro
684      355      360      365
685 His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr
686      370      375      380
687 Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp
688      385      390      395      400
689 Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly
690      405      410      415
691 Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser
692      420      425      430
693 Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe
694      435      440      445
695 Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro
696      450      455      460
697 Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg
698      465      470      475      480
699 Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln Asp Ser
700      485      490      495
701 Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln Thr Lys Thr Pro

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set: A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

702          500          505          510
703 Val Ser Cys Phe Asn Ile Gln Met Cys Val Gly Ala Thr Gly His Asn
704          515          520          525
705 Ile Pro Gln Lys Leu Ser Leu Asn Ala Glu Leu Gln Leu Asp Arg Gln
706          530          535          540
707 Lys Pro Arg Gln Gly Arg Arg Val Leu Leu Leu Gly Ser Gln Gln Ala
708 545          550          555          560
709 Gly Thr Thr Leu Asn Leu Asp Leu Gly Gly Lys His Ser Pro Ile Cys
710          565          570          575
711 His Thr Thr Met Ala Phe Leu Arg Asp Glu Ala Asp Phe Arg Asp Lys
712          580          585          590
713 Leu Ser Pro Ile Val Leu Ser Leu Asn Val Ser Leu Pro Pro Thr Glu
714          595          600          605
715 Ala Gly Met Ala Pro Ala Val Val Leu His Gly Asp Thr His Val Gln
716          610          615          620
717 Glu Gln Thr Arg Ile Val Leu Asp Ser Gly Glu Asp Asp Val Cys Val
718 625          630          635          640
719 Pro Gln Leu Gln Leu Thr Ala Ser Val Thr Gly Ser Pro Leu Leu Val
720          645          650          655
721 Gly Ala Asp Asn Val Leu Glu Leu Gln Met Asp Ala Ala Asn Glu Gly
722          660          665          670
723 Glu Gly Ala Tyr Glu Ala Glu Leu Ala Val His Leu Pro Gln Gly Ala
724          675          680          685
725 His Tyr Met Arg Ala Leu Ser Asn Val Glu Gly Phe Glu Arg Leu Ile
726          690          695          700
727 Cys Asn Gln Lys Lys Glu Asn Glu Thr Arg Val Val Leu Cys Glu Leu
728 705          710          715          720
729 Gly Asn Pro Met Lys Lys Asn Ala Gln Ile Gly Ile Ala Met Leu Val
730          725          730          735
731 Ser Val Gly Asn Leu Glu Glu Ala Gly Glu Ser Val Ser Phe Gln Leu
732          740          745          750
733 Gln Ile Arg Ser Lys Asn Ser Gln Asn Pro Asn Ser Lys Ile Val Leu
734          755          760          765
735 Leu Asp Val Pro Val Arg Ala Glu Ala Gln Val Glu Leu Arg Gly Asn
736          770          775          780
737 Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu Arg Glu
738 785          790          795          800
739 Gln Asn Ser Leu Asp Ser Trp Gly Pro Lys Val Glu His Thr Tyr Glu
740          805          810          815
741 Leu His Asn Asn Gly Pro Gly Thr Val Asn Gly Leu His Leu Ser Ile
742          820          825          830
743 His Leu Pro Gly Gln Ser Gln Pro Ser Asp Leu Leu Tyr Ile Leu Asp
744          835          840          845
745 Ile Gln Pro Gln Gly Gly Leu Gln Cys Phe Pro Gln Pro Pro Val Asn
746          850          855          860
747 Pro Leu Lys Val Asp Trp Gly Leu Pro Ser Pro Ser Pro Ser Pro Ile
748 865          870          875          880
749 His Pro Ala His His Lys Arg Asp Arg Arg Gln Ile Phe Leu Pro Glu
750          885          890          895

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

```

751 Pro Glu Gln Pro Ser Arg Leu Gln Asp Pro Val Leu Val Ser Cys Asp
752          900          905          910
753 Ser Ala Pro Cys Thr Val Val Gln Cys Asp Leu Gln Glu Met Ala Arg
754          915          920          925
755 Gly Gln Arg Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser
756          930          935          940
757 Leu Tyr Gln Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp
758 945          950          955          960
759 Phe Asn Val Ser Ser Leu Pro Tyr Ala Val Pro Pro Leu Ser Leu Pro
760          965          970          975
761 Arg Gly Glu Ala Gln Val Trp Thr Gln Leu Leu Arg Ala Leu Glu Glu
762          980          985          990
763 Arg Ala Ile Pro Ile Trp Trp Val Leu Val Gly Val Leu Gly Gly Leu
764          995          1000          1005
E--> 765
Leu Leu Leu Thr Ile Leu Val Leu Ala Met Trp Lys Val Gly Phe Phe      1010

```

1015

same

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/017,828

DATE: 01/08/2002

TIME: 15:06:52

Input Set : A:\50211.015003.SEQLIST.TXT

Output Set: N:\CRF3\01082002\J017828.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:272 M:252 E: No. of Seq. differs, <211>LENGTH:Input:788 Found:768 SEQ:3
L:375 M:252 E: No. of Seq. differs, <211>LENGTH:Input:788 Found:768 SEQ:4
L:436 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:436 M:252 E: No. of Seq. differs, <211>LENGTH:Input:3303 Found:3180 SEQ:5
L:497 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:497 M:252 E: No. of Seq. differs, <211>LENGTH:Input:3303 Found:3180 SEQ:6
L:631 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1039 Found:1008 SEQ:7
L:765 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1039 Found:1008 SEQ:8